SUPERSTORE DATA ANALYSIS

► Interview Assignment for the Data Analyst Role



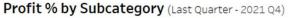


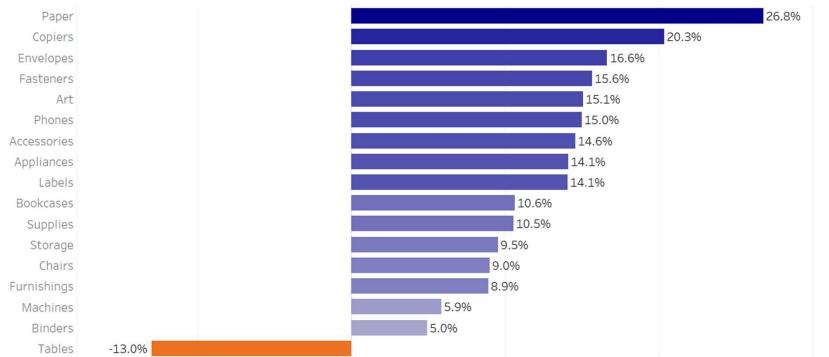
Assignment Details

Please analyze the following and present your findings in a short report and interactive dashboard (Using BI tool):

- 1. Calculate and visualize the profit percentage from each subcategory in the last quarter.
- 2. Create a dashboard showing:
 - a) The top 5 best-selling products per region.
 - b) The highest-selling salesperson (and their respective sales volume).
 - c) Year-over-year sales trends for the Technology category.
- 3. Add columns to the People Excel spreadsheet displaying total sales and total returns per person.
- 4. Using SQL, write a query that calculates total sales and returns by region and category.
- 5. Based on the data and your findings, provide 2-3 business recommendations on how the company can improve its performance

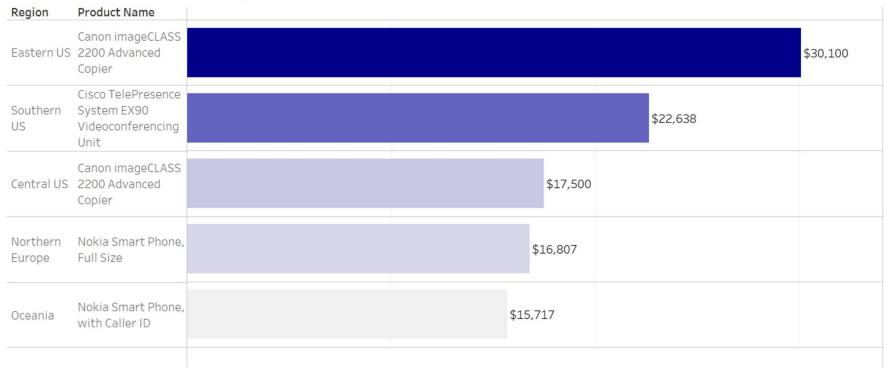
1. Calculate and visualize the profit percentage from each subcategory in the last quarter





2a. The top 5 best-selling products per region

Top 5 Best-Selling Products Per Region



2b. The highest-selling salesperson (and their respective sales volume)

Top Salesperson

Gilbert Wolff

Sales:

\$1,731,931

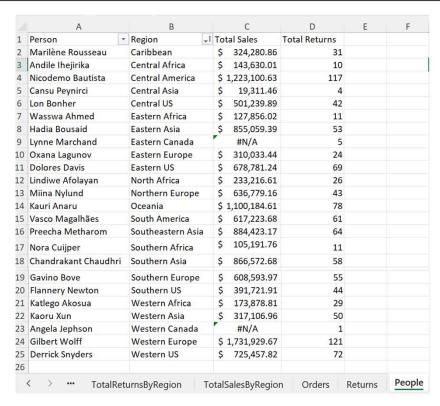
Region:

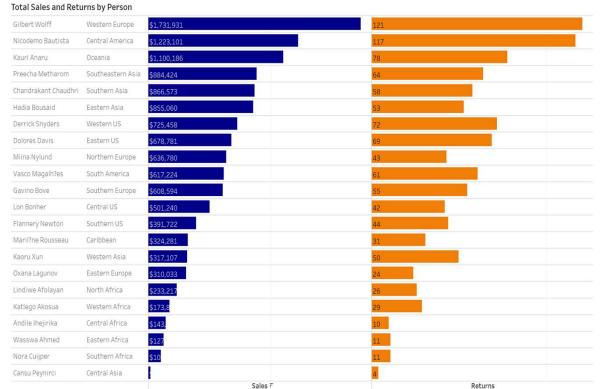
Western Europe

2c. Year-over-year sales trends for the Technology category

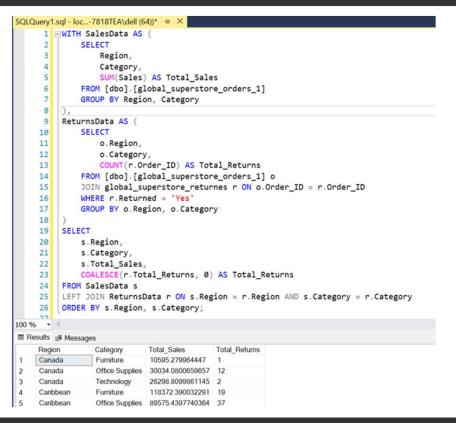


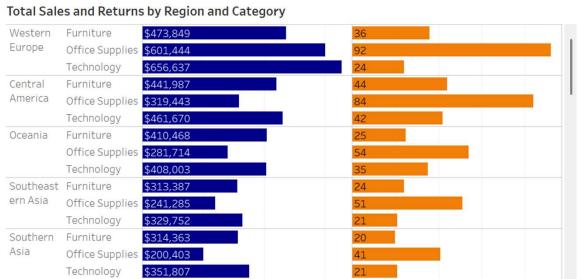
3. Add columns to the People Excel spreadsheet displaying total sales and total returns per person.



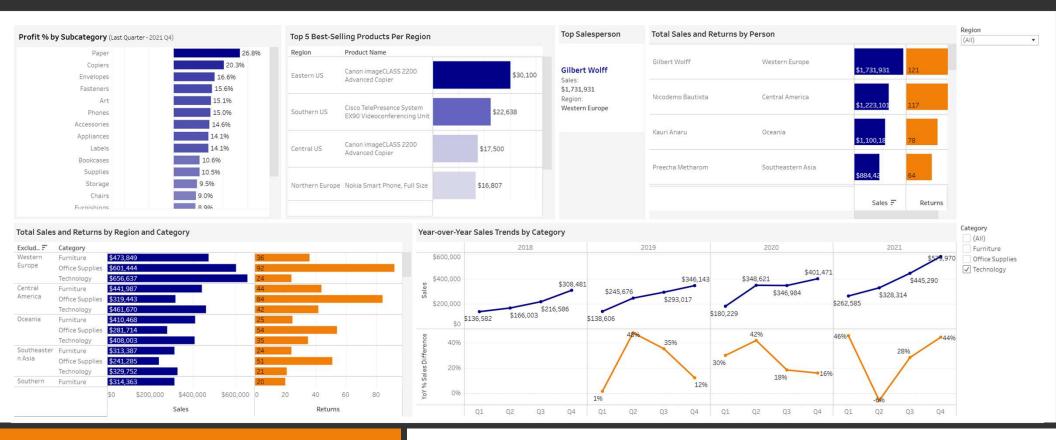


4. Using SQL, write a query that calculates total sales and returns by region and category





SUPERSTORE DASHBOARD



5. Based on the data and your findings, provide 2-3 business recommendations on how the company can improve its performance

Optimize High-Return Categories

Issue:

Office Supplies and Technology have the highest return rates, especially in Western Europe and Central America.

Recommendation:

- Conduct a Root Cause Analysis on returns by region and category (e.g., quality defects, shipping errors).
- Improve Product Descriptions & Customer Support to set better expectations and reduce returns.
- Enhance Return Policies & Reverse Logistics to minimize revenue loss while keeping customer satisfaction high.

Impact:

Reducing returns by even 10-15% in key regions could significantly improve profit margins and reduce operational costs.

Expand into Low-Performing Regions

Issue

Sales in North Africa, Central Africa, Western Africa, and Central Asia are low, limiting overall market reach.

Recommendation:

- Expand Digital & E-commerce Channels: Improve online presence and consider partnerships with local e-commerce platforms.
- Develop Region-Specific Pricing & Promotions:
 Offer localized discounts and bundled deals to
 attract customers.

Impact:

Even a 5-10% sales increase in underperforming regions could unlock new revenue streams and increase market share.

Leverage Seasonal Sales Trends

Issue:

Technology & Office Supplies drive the highest revenue, but quarterly fluctuations.

Sales peak in Q4 but need better forecasting and inventory management.

Recommendation:

- Plan for Seasonal Demand: Use historical sales data to prepare for peak periods (Q4) with optimized stock levels and targeted marketing.
- Upsell & Bundle High-Margin Products: Combine Office Supplies + Technology deals to boost revenue.

Impact:

A better Q4 sales strategy could drive a 15-20% increase in peak-season revenue and improve overall profitability.

Final Thoughts

By focusing on return reduction, market expansion, and seasonal sales optimization, the company can increase revenue, reduce losses, and expand its global market presence.

THANK YOU



